

## ABSTRACT

### EFFECTIVE NUCLEAR REPROGRAMMING IN MAMMALS

The present invention provides methods of producing a cloned non-human mammalian nuclear transfer (NT) embryo and methods for producing a cloned non-human mammal. Embodiments of the methods include introducing donor genetic material into a metaphase I oocyte; introducing donor genetic material into a non-enucleated oocyte; introducing donor genetic material obtained from a donor cell that is at metaphase into an oocyte; introducing donor genetic material into an oocyte, and naturally activating the oocyte or the NT embryo; and introducing donor genetic material obtained from a donor cell that is at late G1 phase into an oocyte.

"EXPRESS MAIL" MAILING LABEL

EL776900842 US

DATE OF DEPOSIT: March 15, 2001  
I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE  
UNITED STATES POSTAL SERVICE "EXPRESS MAIL" POST OFFICE TO ADDRESS  
SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO  
THE ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20591

PRINTED NAME

Gara Labadwig

SIGNATURE

Gara Labadwig